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A novel megakaryocyte differentiation factor, for example, consisting essentially of SEQ ID NO: 30; DNA coding for the megakaryocyte differentiation factor, an expression vector comprising the DNA, a host transformed with the expression vector, and a process for production of the megakaryocyte differentiation factor using the host.

15 The megakaryocyte differentiation factor accelerates
differentiation of megakaryocytes in the presence of
IL-3, and acts as a thrombopoietin, and therefore an
effective medicament to various diseases involving a
decrease in platelets.